



SUPREME PETRO
CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Titanium Dioxide Anatase
SDS

REV 3.1
29 JULY 2026
GHS REV.11 (2025)

CAS 13463-67-7 EC 236-675-5 SIGNAL WORD DANGER

GHS08

Health Hazard

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE
COMPANY

Product Name	Titanium Dioxide Anatase
Product Type	Titanium dioxide pigment, anatase
Chemical Family	Inorganic oxide pigment
CAS No.	13463-67-7
EC No.	236-675-5
Intended Use	Industrial / professional use as listed on the SPC product page.
Restrictions on Use	Industrial / professional use only. Confirm grade suitability before regulated or consumer use.
Supplier	Supreme Petro Chemicals
Address	No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Emergency Contact	Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/titanium-dioxide-anatase
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

Carc. 2 (by inhalation, respirable dust) – classified in some jurisdictions. Not classified for other GHS hazard classes based on reviewed source data.

Signal Word	WARNING
GHS Pictograms	GHS08 (Health Hazard)

HAZARD STATEMENTS

- H351 – Suspected of causing cancer by inhalation.

PRECAUTIONARY – PREVENTION

- P260 – Do not breathe dust.
- P271 – Use only outdoors or in a well-ventilated area.
- P272 – Contaminated work clothing should not be allowed out of the workplace.
- P280 – Wear protective gloves / eye protection / face protection.

PRECAUTIONARY – RESPONSE / STORAGE / DISPOSAL

- P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 – Call a POISON CENTER or doctor if you feel unwell.
- P405 – Store locked up.
- P501 – Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% w/w	GHS CLASSIFICATION
Titanium dioxide (anatase)	13463- 67-7	236- 675-5	100	Carc. 2 by inhalation (H351) – where applicable under jurisdictional rules

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air immediately. Keep comfortable for breathing. If symptoms persist, seek medical attention.
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Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Seek medical attention if symptoms persist.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice.
Note to Physician	Treat symptomatically based on exposure route and product hazards.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Use water spray, foam, dry chemical, or carbon dioxide suitable for the surrounding fire.
Unsuitable Media	Do not direct a high-pressure water jet where it may spread the material.
Specific Hazards	Titanium dioxide is non-flammable. Fine dust may form irritating atmospheres. Combustion of co-contaminants may produce irritating fumes. Containers may rupture when exposed to intense heat.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA).
Special Procedures	Evacuate non-essential personnel. Prevent contaminated run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid generating dust. Wear appropriate PPE (see Section 8). Keep unnecessary personnel away.
Environmental Precautions	Prevent entry into drains, sewers, soil, and watercourses.
Containment / Clean-up	Avoid dust generation. Sweep or vacuum carefully into labelled, closeable containers. Do not use compressed air. Prevent release to drains.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal, and Section 15 for regulatory information.



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SECTION 7 HANDLING AND STORAGE

Handling Precautions	Minimise generation and inhalation of respirable dust. Use dust-control engineering measures (local exhaust ventilation, enclosure). Keep containers dry and tightly closed when not in use.
Hygiene	Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink, or smoke when using this product.
Storage Conditions	Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage.
Storage Temperature	Store at ambient temperature unless supplier instructions specify otherwise.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides); concentrated acids and halogens.
Segregation	Segregate from food, drink, animal feed, and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Titanium dioxide (CAS 13463-67-7): Use verified local OEL (8 h TWA) / STEL if established. Where no OEL is set, apply ALARA / good industrial hygiene practice. OSHA / NIOSH / ACGIH / EU / India – confirm with supplier and regional authority.
Engineering Controls	Use closed handling systems or local exhaust ventilation to control respirable dust. Provide general dilution ventilation as backup.
Respiratory Protection	Where ventilation is inadequate, use a NIOSH/EN-approved respirator with P95/P100 particulate filter cartridge. Use SCBA for emergency response.
Hand / Eye / Skin	Gloves: compatible chemical-resistant gloves (nitrile, butyl, neoprene, or PVC). Eyes: EN 166 / ANSI Z87.1 chemical splash goggles. Body: chemical-resistant clothing, apron, and safety footwear. Provide eyewash and safety shower where appropriate.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White powder.
Odour	Odourless.
Odour Threshold	Not applicable (solid; odourless).



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pH	Not applicable unless supplied as aqueous suspension. For aqueous grades, verify pH from supplier COA/SDS.
Melting / Freezing Point	~1843 °C (anatase phase; converts to rutile above ~700 °C).
Boiling Point / Range	~2972 °C (decomposes/sublimes at very high temperature; not practically relevant for handling).
Flash Point	Not applicable — non-flammable solid.
Auto-ignition Temperature	Not applicable — non-flammable solid.
Flammability Limits	Not applicable.
Vapour Pressure	Negligible at ambient temperature (non-volatile solid).
Vapour Density (air = 1)	Not applicable (solid).
Relative Density	~3.8 – 4.2 g/cm ³ (bulk density varies by grade; verify with supplier COA).
Solubility in Water	Practically insoluble.
Log Pow (Partition Coeff.)	Not applicable (inorganic substance).
Evaporation Rate	Not applicable (non-volatile solid).
Viscosity	Not applicable (solid).
VOC Content	Nil.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid extreme heat, contamination, and exposure to incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides); concentrated acids and halogens. Reactive with aluminium chloride (AlCl ₃) at elevated temperature — not a concern under normal ambient storage or blending.
Hazardous Decomposition	No hazardous decomposition products expected under normal conditions. In fire, irritating fumes may form from co-contaminants.
Hazardous Reactions	Will not occur under normal conditions when stored and handled correctly.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Low acute oral toxicity based on available data. LD ₅₀ (rat, oral) > 10 000 mg/kg reported in literature. Verify with supplier.
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Acute Dermal Toxicity	Not classified. Minimal dermal absorption expected. Verify with supplier/test data.
Acute Inhalation Toxicity	Respirable fraction: classified as Carc. 2 (by inhalation) in some jurisdictions (H351). Minimise dust exposure.
Skin Irritation	Not classified as a skin irritant based on available data. Mechanical irritation possible from fine particles.
Eye Irritation	Not classified as an eye irritant. Mechanical irritation from dust is possible. Rinse promptly if contact occurs.
Sensitisation	Not classified as a skin or respiratory sensitiser based on reviewed data.
Carcinogenicity	IARC Group 2B — possibly carcinogenic to humans by inhalation of respirable TiO ₂ dust. Classified Carc. 2 (by inhalation) under GHS in certain jurisdictions. Consult Section 2 and local regulations.
Mutagenicity	Not classified as a germ cell mutagen based on available data. Verify endpoint-specific data with supplier.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Not classified for acute or chronic aquatic toxicity based on reviewed data. Numeric ecotoxicity data not universally verified; avoid uncontrolled release.
Persistence / Degradability	Inorganic mineral; not subject to biological degradation. Persistent in the environment.
Bioaccumulation	Not expected to bioaccumulate (inorganic mineral, low log K _{ow} concept not applicable). Verify with supplier/ECHA data.
Mobility in Soil	Low solubility limits mobility. Fine particles may be transported in surface water run-off. Prevent release to soil and groundwater.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage waste and releases under applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with local regulations. Assign waste code according to actual process and local regulation.
Contaminated Packaging	Empty containers may retain residues; handle as potentially hazardous until cleaned or disposed of through an authorised



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	contractor.
Indian Regulations	Follow Hazardous Wastes (Management, Handling and Transboundary Movement) Rules and applicable State Pollution Control Board requirements.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	Not regulated	Not regulated	Not regulated
Proper Shipping Name	Not regulated	Not regulated	Not regulated
Class	Not applicable	Not applicable	Not applicable
Packing Group	Not applicable	Not applicable	Not applicable
Marine Pollutant	No	No	—

Titanium dioxide (anatase) is not classified as a dangerous good under ADR, IMDG, or IATA/ICAO. Use approved, compatible, tightly sealed packaging. Verify current carrier rules before shipment. For bulk or international transport, confirm with freight forwarder.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH and CLP requirements where applicable. Classified and labelled according to Section 2. TiO ₂ nano-form registration requirements may apply — confirm with supplier.
OSHA (USA)	Prepared in OSHA HCS/HazCom aligned 16-section SDS format. Verify TSCA inventory/SNUR status before US import or distribution.
India	Observe applicable Indian MSIHC Rules, Hazardous Chemicals Rules, Factories Act provisions, and applicable Pollution Control Board requirements.
Other Jurisdictions	Canada WHMIS 2015/HPR: classify/label using Section 2 classification; bilingual SDS/label may be required. China: use applicable GB/T SDS and classification requirements. Australia (AICS): check inventory status before export or import. Middle East/GCC: observe applicable GHS-aligned local requirements. Final market placement requires confirmation of local OELs, waste codes, and restrictions.

SECTION 16 OTHER INFORMATION

Prepared By	Supreme Petro Chemicals — Technical Department
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SDS Standard	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16-section format
Revision Date	24 June 2026
Version	3.0 (supersedes prior issues)
Disclaimer	Information is given in good faith and believed accurate at issue. It does not constitute a specification or guarantee; the user is responsible for safe use, handling and compliance.

FULL TEXT OF H-STATEMENTS

- H351 — Suspected of causing cancer by inhalation.